COLUMNAR SECTION

GENERALIZED SECTION FOR THE NEPESTA QUADRANGLE. SCALE: 1 INCH = 500 FEET.							
System.	FORMATION NAME.	Symbol.	THICKNESS IN FEET.	COLUMNAR SECTION.	DEPTH TO DAKOTA SANDSTONE.	CHARACTER OF ROCKS.	CHARACTER OF TOPOGRAPHY AND SOIL.
TER- TIARY	Nussbaum formation.	Tn	20-60	2 0000000000000000000000000000000000000		Sand and gravel, often cemented into conglomerate.	Mesas.
A C E O U S (UPPER SERIES)	Pierre shale.	Кр	2300		3200 3000 2800 2600 2400 2200 1800 1600 1400	Light-gray sandy shale containing layers of iron-carbonate concretions. Upper members very sandy. Fine-grained gray shale containing vertical cylindrical limestone "cores" and large iron-carbonate concretions. Fine-grained dark-colored shale characterized by numerous layers of iron- and lime-carbonate concretions which are dark bluish gray but weather to rust color. Dark-gray to black shale, yellow at base. Iron-carbonate concretions in lower members.	Numerous small conical hills, "tepee buttes." Long, gradual slopes traversed by ravines which in the higher portions are moderately shallow but throughout the lowlands are often deeply trenched. Stiff "gumbo"-like soil, highly acidic, due to decomposed pyrites. Not well adapted to cultivation.
н	Apishapa formation.	Ka	425–450		1000 - 800	Shale containing thin bands and large lenses of impure limestone near the top. Sandy shale.	Gently undulating plains with wide, open valleys. Soil sandy and fertile.
Œ	oi N ardoi				600	Paper shale. Thin bands of impure limestone at the top; calcareous shale near the	Level plains.
O	Timpas formation.	Kt	200-225		400	middle; massive gray limestone at the base.	Rocky slopes and high cliffs.
	Carlile shale.	Kcr	150			Dark shale capped by light-brown to yellowish sandstone; concretions in upper part and limestone layers near base.	Bare shaly slopes.
	Greenhorn limestone.	Kg	50		200	Alternating layers of dove-colored, jointed limestone and thin shale.	Low shelving ridges.
	Graneros shale.	Kgs	200	6-mp6=-100-0=50-0	<u> </u>	Dark-gray shale containing concretions near base and limestone above.	Gradual slopes and valleys. Soil thin, except where covered with alluvium.
	Dakota sandstone.	Kd	100+		V	Brown sandstone.	Rocky slopes. Deep, narrow canyons.

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